

said first data interface of said computer, and wherein the part-forming machine is functionally communicatable with said second data interface of said computer.

32. The integrated controller of Claim 29, wherein said at least one data interface of said computer is a bus.

33. The integrated controller of Claim 29, wherein said at least one data interface of said computer is a port.

REMARKS

Examiner has rejected Claims 1, 2, 7 and 24 under 35 U.S.C. § 102(e) as being anticipated by *Hibi* (US 6,258,303). In response, Applicant cancels Claims 1, 2, 7 and 24 and adds new Claims 25, 29, 30 and 31.

Examiner has rejected Claims 8, 13, 14, 16-20 and 22 under 35 U.S.C. § 102(e) as being anticipated by *Kachnic et al.* (US 5,928,578). Examiner further states that the rejection with respect to independent claims 8 and 16 "would be overcome by reciting that the integrated controller includes both the sensory and the machine controller." In response, Applicant amends Claim 8 to recite in the

preamble that the integrated controller comprises a machine controller and sensory electronics, and amends Claim 16 to recite in the preamble that the integrated controller comprises a machine controller, sensory electronics and a user-interface, thus differentiating the claimed apparatus from *Kachnic et al.* Based upon the present amendments, Applicant believes that Examiner's rejection regarding Claims 8 and 16 are moot and that Claims 8 and 16 and depending claims 13, 14, 17-20 and 22 are now patentable and in condition for allowance.

Notwithstanding the amendments described above, Applicant respectfully submits an affidavit herewith under 37 CFR 1.132 to show common ownership and inventorship of US patent 5,928,578, and that US 5,928,578 is not the invention "by another," thus disqualifying its use as prior art. Based upon the present affidavit, Applicant believes that Examiner's rejection regarding Claims 8, 13, 14, 16-20 and 22 is moot and that Claims 8 and 16 and all depending claims are patentable and in condition for allowance.

Examiner has rejected Claims 3, 4, 5 and 6 under 35 U.S.C. § 103(a) as being unpatentable over *Hibi et al.* (US 6,258,303) in view of *Azarya et al.* (US 5,978,578). In response, Applicant cancels claims 3-6 and adds new Claims 32 and 33.

Examiner has rejected Claims 9, 10, 11 and 12 under 35 U.S.C. §

103(a) as being unpatentable over *Kachnic et al.* (US 5,928,578) in view of *Azarya et al.* (US 5,978,578), Claims 15 and 23 under 35 U.S.C. § 103(a) as being unpatentable over *Kachnic et al.* (US 5,928,578) in view of *Hibi* (US 6,258,303), and Claim 21 under 35 U.S.C. § 103(a) as being unpatentable over *Kachnic et al.* (US 5,928,578) in view of *Joseph* (US 5,891,383). In response, Applicant has cancelled Claims 11, 12, 15 and 23. Claims 9 and 10 depend from Claim 8, which has been amended herein to recite in the preamble that the integrated controller comprises a machine controller and sensory electronics, and Claim 21 depends from Claim 16, which has been amended herein to recite in the preamble that the integrated controller comprises a machine controller, sensory electronics and a user-interface, thus differentiating the claimed apparatus from *Kachnic et al.* Based upon the amendments, Applicant believes that Examiner's rejection regarding Claims 9, 10 and 21 are moot and that Claims 8 and 16 and depending claims 9, 10 and 21 are now patentable and in condition for allowance.

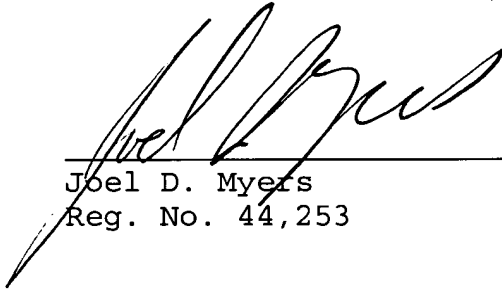
Notwithstanding the amendments described above, Applicant's submission of an affidavit herewith under 37 CFR 1.132 to show common ownership and inventorship of US patent 5,928,578, and that US 5,928,578 is not the invention "by another," disqualifies its use as prior art. Based upon the present affidavit, Applicant believes that Examiner's rejection regarding Claims 9, 10, 11, 12, 15, 21 and 23 is moot and that Claims 9, 10 and 21 are patentable and in condition for

allowance.

CONCLUSION

The above amendments to the claims are corrections to form and thus, no new matter was added. In light of the above-amended claims and the attached 37 CFR 1.132 affidavit, Applicant respectfully believes that Claims 8, 9, 10, 13, 14, 16, 17, 18, 19, 20, 21 and 22 are now allowable and that new Claims 25, 26, 27, 28, 29, 30, 31, 32 and 33 are allowable. Should there be any questions or concerns, the Examiner is invited to telephone Applicant's undersigned attorney.

Respectfully submitted, this 23rd day of October, 2001.



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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Paragraph 3, Page 12. (Once Amended) Another feature and advantage of the present invention is to provide a new and improved integrated part-forming controller[,] that eliminates the need for duplicating user interfaces and [,] independent CPU hardware systems[,]_.

In the Claims:

1. (Cancel) An integrated controller for use with a part-forming machine, comprising:

a computer having at least one data interface;

a program for controlling the part-forming machine; and

a program for analyzing data from the sensory device and for communicating with said part-forming machine program,

wherein the sensory device is functionally communicatable with said at least one data interface of said computer, and wherein the part-forming machine is functionally communicatable with said at least one data interface of said computer.

2. (Cancel) The integrated controller of Claim 1, further comprising means for displaying information, said display means being in communication with said computer.

3. (Cancel) The integrated controller of Claim 1, wherein said at least one data interface of said computer is a bus.

4. (Cancel) The integrated controller of Claim 1, wherein said at least one data interface of said computer is a USB port.

5. (Cancel) The integrated controller of Claim 1, wherein said at least one data interface of said computer is a serial port.

6. (Cancel) The integrated controller of Claim 1, wherein said at least one data interface of said computer is a parallel port.

7. (Cancel) The integrated controller of Claim 1, wherein said computer has a first data interface and a second data interface, wherein the sensory device is functionally communicatable with said first data interface of said computer, and wherein the part-forming machine is functionally communicatable with said second data interface of said computer.

8. (Once Amended) An integrated controller comprising a machine controller and sensory electronics, for use with an injection-molding machine, comprising:

a computer having a data interface;

a program for analyzing data from the sensory electronics [device] and controlling the injection-molding machine and the sensory electronics [device] in response to the sensory electronics [device] data; and

means for displaying information, said display means being in communication with said computer,

wherein the sensory electronics are [device is] functionally communicatable with said data interface of said computer, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

10. (Once Amended) The integrated controller of Claim 8, wherein said data interface of said computer is a [USB] port.

11. (Cancel) The integrated controller of Claim 8, wherein said data interface of said computer is a serial port.

12. (Cancel) The integrated controller of Claim 8, wherein said data interface of said computer is a parallel port.

13. (Once Amended) The integrated controller of Claim 8, wherein said computer has a first data interface and a second data interface, wherein the sensory electronics are [device is] functionally communicatable with said first data interface of said computer, and wherein the part-forming machine is functionally communicatable with said second data interface of said computer.

15. (Cancel) The integrated controller of Claim 8, wherein said display device is a printer.

16. (Once Amended) An integrated controller comprising a machine controller, sensory electronics and a user-interface, for use with a [an] part-forming machine, comprising:

a computer having a data interface;

[a] sensory electronics [device] in communication with said data interface of said computer, said sensory electronics [device] outputting sensory data to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics [device] and controlling the part-forming machine and said sensory electronics [device] in response to said sensory data; and

means for displaying information, said display means in communication with said computer, wherein said sensory electronics [device] functionally communicates with said data interface of said computer, and wherein the injection-

molding machine is functionally communicatable with said data interface of said computer.

17. (Once Amended) The integrated controller of Claim 16, wherein said sensory electronics [device] is at least one vision sensor.

18. (Once Amended) The integrated controller of Claim 16, wherein said sensory electronics [device] is at least one infrared sensor.

19. (Once Amended) The integrated controller of Claim 16, wherein said sensory electronics [device] is at least one air pressure sensor.

20. (Once Amended) The integrated controller of Claim 16, wherein said sensory electronics [device] is at least one vacuum sensor.

21. (Once Amended) The integrated controller of Claim 16, wherein said sensory electronics [device] is at least one ultrasonic sensor.

23. (Cancel) The integrated controller of Claim 16, wherein said display device is a printer.

24. (Cancel) The method of controlling a part-forming machine, comprising the steps of:

a. using a sensory device to collect data regarding the condition of the part-forming machine;

b. communicating said data with a computer having a program to analyze said data and to generate data commands for controlling the part-forming machine; and

c. communicating said data commands to the part-forming machine.

25. (New) The method of integrated control of a part-forming machine, comprising the steps of:

a. having at least one user-interface and using integrated sensory electronics to collect data regarding the condition of the part-forming machine;

b. communicating said data with a computer having a program to analyze said data and to generate data commands for controlling the part-forming machine; and

c. communicating said data commands to the part-forming machine.

26. (New) The method of integrated control of a part-forming machine of Claim 25, further comprising the step of:

d. utilizing an integrated machine controller to control the part-forming machine.

27. (New) The method of integrated control of a part-forming machine, comprising the steps of:

a. using an integrated machine controller and integrated sensory electronics to collect data regarding the condition of the part-forming machine;

b. communicating said data with a computer having a program to analyze said data and to generate data commands for controlling the part-forming machine; and

c. communicating said data commands to the part-forming machine.

28. (New) An integrated controller, having machine controller, sensory electronics and a user-interface, for use with a part-forming machine, comprising:

a computer having a data interface;

sensory electronics in communication with said data interface of said computer, said sensory electronics outputting sensory data to said computer via said data interface;

a program for analyzing said sensory data from said sensory electronics and controlling the part-forming machine and said sensory electronics in response to said sensory data; and

means for displaying information, said display means in communication with said computer,

wherein said sensory electronics functionally communicate with said data interface of said computer, wherein said sensory electronics are capable of determining the presence and/or absence and quality of the formed part, and wherein the injection-molding machine is functionally communicatable with said data interface of said computer.

29. (New) An integrated controller having sensory electronics and at least one user-interface, for use with a part-forming machine, comprising:

a computer having at least one data interface;

a program for controlling the part-forming machine; and

a program for analyzing data from the sensory electronics and for communicating with said part-forming machine program,

wherein said sensory electronics are functionally communicatable with said at least one data interface of said computer, wherein said sensory electronics are capable of determining the presence and/or absence and quality of the part, and wherein the part-forming machine is functionally communicatable with said at least one data interface of said computer.

30. (New) The integrated controller of Claim 29, further comprising means for displaying information, said display means being in communication with said computer.

31. (New) The integrated controller of Claim 29, wherein said computer has a first data interface and a second data interface, wherein the sensory electronics are functionally communicatable with said first data interface of said computer, and wherein the part-forming machine is functionally communicatable with said second data interface of said computer.

32. (New) The integrated controller of Claim 29, wherein said at least one data interface of said computer is a bus.

33. (New) The integrated controller of Claim 29, wherein said at least one data interface of said computer is a port.